

IN THE CLAIMS:

Please amend the claims as follows:

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1. (Amended) An electric drive system operated with muscle-power (1) for a vehicle (2) and/or a stationary training apparatus (3) with a foot pedal (5) and a generator (6) mechanically connected with the foot pedal, with an electric transmission (4) from the generator (6) to an electric consumer (10) and/or to a drive motor (11) as well as with an electric control system (20), wherein the electric control system comprises a control program (21) of the generator (6), with which a counter moment GM on the generator, related to the forwards pedaling direction v is generatable,

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wherein the drive system, as a vehicle drive with counter moment, comprises a starting control (22) of the generator, with which, when the foot pedal is actuated from standstill, an immediately occurring pedal resistance TW is generated and with which a high starting moment MA is generated at the foot pedal when starting from standstill up to a minimum riding speed,

and wherein the drive system, as a drive with counter moment for a stationary training apparatus (3), comprises a motor operation control (23) with a bidirectional converter (31), with which the generator (6) is also operatable as a motor, with controllable coupling and uncoupling of electric power.

2. (Amended) The drive system in accordance with claim 1, wherein the standstill pedal resistance TW corresponds to an actuation force F on the foot pedal (5) of at least 200 N.

3. (Amended) The drive system according to claim 1, wherein the starting moment MA at the foot pedal amounts to at least 40 Nm.

4. (Amended) The drive system in accordance with claim 1, wherein the starting

control (22) of the generator is controlled such that the starting acceleration of the foot pedal (bmax) on average amounts to a maximum of 4 rad/sect.

5. (Amended) The drive system according to claim 1, wherein the resistance or load moment (M1) of the generator is modulated in phase with the pedal angle (W1).

6. (Amended) The drive system in accordance with claim 1, wherein a standstill braking (71) of the foot pedal is active, which produces a standstill pedal resistance TW and which is also effective in case the electric control system (20) is switched off.

7. (Amended) The drive system according to claim 1, wherein the generator is short-circuited by means of an electric switch (33) directly or through resistors, capacitors and coils and wherein the electric switch, in case the electric control system (20) is switched off, is closed for the generation of the pedal resistance TW.

8. (Amended) The drive system in accordance with claim 7, wherein, by means of brief switching on and switching off (choppering) of the electric switch (33) during the starting, the high starting moment MA is generated.

9. (Amended) The drive system according to claim 1, wherein a range of the maximum efficiency of the generator (6) corresponds to a normal range of the pedaling frequency, said normal pedaling frequency range being between about 50 - 100 rpm.

10. (Amended) The drive system according to claim 1, wherein the generator control program (21) comprises several moment characteristics (M60, M120), which are able to be changed over between, and which increase within, a normal range of the pedaling frequency.

11. (Amended) The drive system according to claim 1, wherein, to the foot pedal (5) and to the generator (6), electrical, mechanical or fluid brakes (45), such as braking resistors,

eddy current brakes, friction brake pads, gas - and fluid damping elements or mechanical storage devices (46), such as spring-power storage devices or gas - and liquid storage devices are assigned.

12. (Amended) The drive system in accordance with claim 1, wherein a blockable free-wheel system (42) or a switchable clutch (43) is provided between the foot pedal and the generator.

13. (Amended) The drive system according to claim 1, wherein the drive system comprises modular units, said modular units being selected from the group consisting of a pedal generator module (8) with foot pedal (5), generator (6), a possible speed transmission (7) and generator control system (20.1), a control module (20) and a drive motor module (18) with motor (11), a possible speed reduction transmission (12) and a motor control system (20.2).

14. (Amended) The drive system in accordance with claim 1, wherein electric storage devices (14), and in particular a super capacitor (15) (super cap), are provided as short-term storage devices.

15. (Amended) The drive system according to claim 1, wherein two differently designed motors, (11a, 11b) each respectively for higher and a lower speed range, or a motor with switched windings is provided.

16. (Amended) The drive system according to claim 1, wherein operating data, such moments or torques, powers and revolutions per min on the foot pedal are recorded and indicated.

17. (Amended) The drive system according to claim 1, wherein an interface (35) is provided for connecting external devices.

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18. (Amended) The drive system in accordance with claim 1, wherein a removable data storage device (29) is provided, which when it is removed carries out a closing function of the system.

19. (Amended) The drive system according to claim 1, wherein the electric circuit comprises operating programs (24), resp., driving riding programs (25) for the utilization in training apparatuses, resp., vehicles.

20. (Amended) The drive system in accordance with claim 1, wherein the electric control system (20) after a selectable time interval, during which no traveling motion takes place, goes over into an inoperative or idle condition and/or the pedal is moved to a desired starting position.

21. (Amended) The drive system according to claim 1, wherein the foot pedal (5) comprises a changeable geometry.

22. (Amended) A vehicle with a drive system in accordance with claim 1.

23. (Amended) A training apparatus with a drive system according to claim 1.

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